Hourval Moles of Vervon Baily Jun 22 - July 22, 1927, Minusota to Meroda T Origon Su notes on bots ad bot covers June 27

1927

VB.

Journal notes - Verron Bailey. Tune 22. Left Mineapolis 7:40 PM for Oriaha. Jun 23. Arrived Swaba 7:40 AM. Up to Numerusea. Meverda. Ju 24 - acrived Winnennesen 11:55 IM. I went to fotet feembolet. Tune 25. Yot woil + worked an suports and account and letters. Være 26 - to Hagen in evening and But & Fallers by 10 PM. June 27 - Out to bot coure in edge 2 valley 10 miles & W. of Fallow where we found lots of Mysturous wificanus and a few antrogous rallidus Wreeding in cart.

Fired wito our colorny and becaught town two untropous each couring small James clinging to the nipples. The young of our worr apparently but a day old. wale and Lemale, blind, barrless, with wings more like feet than wings. The themp with book of four fingers only partly woobed. The claws were well diveloped The start of the fat used the The bat used there skillfully in clurying of Is nother litto the worth was well armed with unate teth like fine - short of booked for claring. Each was fixedly attended to a wide, plat supple that gave it a monthful of get the immele list suito and it chang so fumly That I was affraired of pulling of its head to get The last one leave from its deadwolling the next day. It clumg with tell of all its hoolood claws at orver its body in line with the nothers so when she hung head down

To did the young one. I sewoved it want day vel placed it on another live female Wha's young had been killed by The stat Her young were twice as large at probably a week old with slightly better teeth of upe stit just begring to open. They also were male o female, both savid for Mur the small young was placed as the west of the other but it quobbed a wouthful of hair and classed his with tooked classes and in a moment none let go and formel The rupply al grobbed it evenily. The old but began to object as soon as she full The little one on her or tried to push it away with her wing but earled vot, to she unehed down at took its heref in her wouth and foreably torrist house from the nie ple of pushed it away. It squaked of later in skining it

Tooth mades on me dided its pead at in the eas on the other side. The knew it was not her of intentionally injured it to make it have her nipple. The bat niffle are wished flat for The whole width of a wide wouthed young of to give a queter Chinging ad carrying eurface. after hanging all night in a North dock in an outside open soom where the temperatury was chilly the young but was cold and partially tospid in The woing but not so marly tarpid as the old but in the saw sack. It was not too helphas to use its claws in having on or slowly getting a new bold and if its teeth tad been set on a nipple it would have been perfectly safe if the nother tool awaleured and flours away before it warmed up. However its temperature would defend on here and if both became toopid together partoty both would warm up smultanosh

The Metrionus mexicanos were for were numerous Than the autropass and obout a dozen were killed at the same about that prought down two of the larger spiews. Some 50 or more were captured in a net as They flow out of the setreat - The roof of the case of we estimated 500 or more that left the cave a little later as it got darker. Those captured were all females, each & containing one large empryo That would probably tool been borne in a week or 10 days. 3 Spreums were savid and Thursembys wire preserved in alsold. On entering The cours we would easily locate The but colonies by The constant aquesting fear several crocked in The rocks overheast. They seemed to be crowding and quarreling for secon or bust places Is it way have bun a quarrel between The hos exerces. In a sall they seemed to get along together all right.

Fallow, getting come early supplies that we could not find ebsewbere. June 29. Fixled up the Obuscolit touring car for a camp trip and got supplies of our outfit ready for starting tourseen June 30 - Lift Fallon 9:20 UM for Winnermees and aerived There at 4 PM. about 150 miles, but 60 of The way sough and slow. Camped near the Humboldt River about 4 miles buyond Winnenwees on the ME Descrit Road. Mosquitous back. Caught nothing in the traps.

July 1. Left Winnemmer in noming, waling with up the North Fork fumbelet Valley about 20 miles settlen over a low divide or saddle of down into the driven kins rally and of day the eastern edge to ME Dermit mas The Oregon him. The ralley has lots of Emphis and broad grainsy bottoms but the rawshes are gunsly located on the swall clear cold wounting sturns Coming down from the side slopes, was from the last slope out of the considerable warmlarm range welnded in The Santa Rosa doctor Hating fourt. We erastedfully a dozen of these fine erales and at Robel Cruk drove of to the old ranger stations at the book The campon for brush of walked a will atwo up the Canyon, hunting for woodeling at comes . Formels signs of inthe but probably ded not go high every The peaks am above timberlies and have big touks they guildres, worthy popular trichocasts and apparently aspen and womitain watogung higher up. The My willy stopes are worthy Jagebush and Bolsewarshy scriptiplia In I worked their with a broad full of hansihurs od a varrow stat of Carodian gour. Mo pines a junifers were neognized on the object.

West of Luim Rivel is a high lattoffed platian called The Quen River Range which is. Two high for Soveran od not high everyle for Canadian or many snowbanks. I washed I as kansition with the broad Sanoran driver hirt valley between the two extending 20 miles with of Wil Derint with Origin but cut of from the Barren Valley Barren Reached ME Dermit, 85 miles north of Winnerween about 4 PM & continued on north east toward Rove for some 30 miles, over Me first ridge al Lours onto Juckers Crick and comped before washing The Tours big grandsquissels commented with that seem like aswates but arenot. also lots of the gray C.m. cours ad got spremmes of both. Oroseaptes, aughispya verreluses 8 brevers sparreus au comme.

July z - Collisted two of another big Jelow growd squish very like degans, all Three opicies on the same vidge wear comp Cellietel 2 spicies of rattitus values al several ligard , m Mapped The life gover from the top of a high bestle was the sum I where the Steen Mis, all survey of high stood of nost conspieures at Quinn River barren alward and The awysher valleys lay Continued on down to Rowe in the Owighie and camped for The night. above the bridge a tought of wiles · This is a low bot valley, all upper Saran with lava flows overdel badland locustrius déposits. gathered a lotof baies of some large wanned like a huffels but larger from a white came of butte & mules book pour Rome about 20 rods worth 9the road

Found no good topping greened at our Campas The valley is alkaling of oreseted but There is good water in The Bury hoes Kives cel wany issigned alphe conclus. Sheep seem to be the primeited industry col bay is raised & inter or lawf their on. a littly barley or wheat is raused for the lorses. Grass is good our The ceruist on Judkars at Kattlesmake essels and lets To shup or cattle. Plants of Duykee Valley. artineia trobutata abu Saccopatus vermicistalus

atriplex confertiplia, Runner Ok Opentia was Gooded Cr. . on sandy soil Micotiana Mentgelia Sink of Whitehouse Cr. July 4+5. artinisia Trifutata Usadymia z Chrisothamos Julirryia atriples cantelyolies Sareobotus Tupium pusillus Clione lutia Orygopsis

July3 - Went go under east to fordentally any got supplies, Then returned about 5 mules al Comped at The reservoir on Jardan river above the Cow Cruk lake vally in The midst of quant lava rock plains covered with ragibusts. Country all upper Sovoran with a good representation of listensing spineseus, grayia, Eurotie, Intradymia, Chrysothamus, Ribes aureum and cereum, Lipanyyrea and the narrow bafed gray willow. Low lava caus on all sides al buttle Comes over the lava fields. Connerge edge of hausition & Someran with were tops clear sorgebrush of warm 1. he I and vulluft mounty Everan.

July 17. West to Rowe set then up Brockers Orick and vour loss slopes to Sheep Bruk al antilops Cruk of them over the west divide to a great playa at abot seems to be the sink of White horse Creek. Turned back 4 miles of countred at edge of a fare und flat apparently 5 × 7 milis. with hig slavel duties around the edge. Set traps in the sawd dunes all out on This saudy valley is pur upper wrong as stown by plants ad annuals. July5- Caught Preoditions, Peroquothurs, Mierodipodolis, Organorys peromyseus samiensis al Citables walls. Saw Entalmas pietus oas signs of Motoma perbobly desettorems and our set of old Thousomys hills.
Coyotes a bodgers obn. Jacksoffits colon.
Continued of to Whiteborso Rawel. about 10 miles and campied a boll mile byond on The Denis Road pustwest of the Crule at set traps botti ways, out an the disent west al book in the ineadows.

The Whitehorse randi's typeral of The old time randus, big of rambling with good buildings, larrols and puners They enise borses al cattle at bay worthy wild notive grasses, my grans at Johnson grass but so alfalfa or other cropes. There is obundance of water - a large trut al any irregalin ditelus carry it over neadars while grass grows by a out armed The eargers is lots of sultgass. Big partures næke vinter range for stæk Thenar lots of willows, bullberries et tall sagebrush but we thinky in sight. The starsanding valleys areal hopei Sacran but The meadows about are probably housely Stations of atthus aregonus of emplet one on higussy billions but mollis is all over the ralley. Jack white, Conjotes of tradgers abuildant. Unmonys monsents hills all over meadows.

July le Caught 2 Thoronys tourseed: Neotona Creeca v M. disettorium nevadinisis, l'esolopeus Rubli Omjetong l. Julijinos , Pumpers Enverensis, Methes untames. Jade rothits Comme, Corpoles & boolgus comme. One botest trade sien. Continued on Durio Rad but out of Willow Cruk Too for and had to him hande. tound a large leavest askin, aldes el wo large leaved willows on Willow G. Several boldsnings. Crassed our low divide of Transitivis for send went down to Trant Coul and theres weres south wold along Talley at south & Dunio. god gas rout rout of sure træle rorth about 5 miles & eauspellan Char cold stream out of southern way or Called it Climate's Cruels from The Abundance of Climates July T. Caught only Perograthus - The taps her I toped for Microdopodops. Came about 35 miles north to andrews when me got gasoling ad a little grub of went on to The north end of the valley, or about secured In north wed where it began to go down toward The north but kept on The Burns Stage wood over the nathern arm of the Steen Ut. to what was probably Mule, Smith, andrews of their back south 25 wiles to Danverd. Came 100 miles from avelus. Me wood was nearly very good but our bong grade with probably 1000 feet pist over the rigsidge. To The ME alward Valley seems Continuous down to the Skull Springs country and lower Malheras River Valley but we did not go far evough to be sure. It is certainly at low and Sorrossen. The figuridge is brondly Transition with northy artinisia arbuseala, Jumperus oscidivlatis and along water causes willows al Populus anglustifolia. Mode rany Comped in weadow it Deanord, Margillas bad

Much survan Stundth. Cuts high about a pards re marshes and huge playas in 3 cs 4 basins of the long ward Valley from Tun Tum Lots to Fally Farm. Low ridge toward whithers Playa; and a low gap about connecting with the big andews Playa.

July 8 Seove up the Coescomorgo Cruh
and camped at end of road obset weils
from Diamond. about Browns Shupsmels.
Transition your spicers am down the Campon,
Churatis and thus there & Salix, Carmes,
Churatis and thus there & Stants along
the coldwater cruft.

July 10. Back to Diamered and over to The Blitzen Kury, Therrup The valley bujord Blilyen and the P. Rauch and camped in the original a mily buyard the last ranch and overlooking the whole length of the valley. Chailed the high ridge to the west overlooking the Callow Valley A worde some good carrielins & the life Zone way of Oregon. Both the Blitzen of Catlow vallup are upper Georgian while wort of the ridges between are Transition. The comor puniper seems to be all occidentalis and warmly Transition all around the Steen MID. of to the west. no jumpers were found east of the stren WMT., none of the Monospeena group anywhere The Steen Mountain Jone was cheeks up The great extent of marsh alowant al bottom land included in The Kiger of Blitzen valleys is a susprise to me, bung hudreds of square miles of rich, will watered land, world it yielding valuable grazing, hay or crops. The wormous tule swamps are especially valuable winter range for called of evoruous quantities q /ay are out forwinter feed.

Eventually vast areas of There valley will be cultivated in alfata and grains as there is ample water supply for extensive irregations but the old idea of stock sange of offen winter grazing still dominates the leavetry. 4 great variety of liper Soveran eraps, fruits of rightables can be raised of Comfortable bornes will take The place of base ranches ed Flock corrals. Water can be pumped for irrigating wany pieces of land voteasely brought whil diteliand must of the water of the vallys is pure nountains water. At prished no crops or trees are raised at some of the older ramelus od in a few places a little alfafa, barly whater use for tay. In gardens we voted potatoes, orions, litture, peas or in our garden a little corn.

July 11, Drove down the Stitzen Pally to the Molhur Valley al acrass The Marrows al to Bierus, 75 miles, got mail al camped by the Silvies River a mily routh Upper Sorman Jone all The way with wands, buds of exteles. The water is high - Malheur Lake and Valley Grass of crops are big at the evorous vailey begins to look perspesses again. VH12 Drove to Crave and and east weld Matheur Lake, Saw Bursan at Voltage and harved that the water is coming both and is 2 feet dup in the ald bed of the lake. Still low but apparently coming of. Camped at the Harrows, or about a mule 5 W of town was a rocky posit cal set 64 traps for Mierochrodops. Found lots of tracks. in wellow sailed sagebrush country, wor an wedy grand Than on The sandy soil.

July 13 - Cought only one Microdypodops No dozens of Them Tramped all award my traps and a few ate some bait. They seems not to can for rolled outs as the Victor wouss hops do rot spring easily evorgh to estell any wice. Dugart om Miero but he socaped. Jourd several of their boles. Caught 4 Purolyus Collected plants od drovedown to Harvey July ad found it with consederable water along the NW vide. The quality part brown dry. Dade & Burns adout to Experient Ration 8 vieles east of Busos, Whise Opel Stallwell is in charge del doing splundid work. Just starting pump on new will today & irrigale 80 acres. a 25 horsepour pemps Throws 2000 gallous a numble - Will love report mady by fall. apply for it to fardine at Down. Palif.

Stoth Ogl. Glye at Cowalls, Oryon.
Returned to Birus or camped of work ups
speemens.

MI - Shallner sens the climate of the Malhun Valley is not adapted to corn or any of the levels clopes on account of frosty nights during every worth of summer, but That over well irrigated areas there is much has past, owing with heat relimins warst air at that at slightly elivated localilies there is less dawage by past. In prainfall of the valley is a proction over 8 molus but in The hills west of Rusus about 17 mehrs, only 10 miles away. The crop adaptations of this quat uland agrientling area, tobe, are only In The beginning of experimentation but will eventually be solvied by just well work as the experiment station is doing -Walfas, Canadian field peas, Sunflants and grains are the primising elops now with morning yields from obuilance of good Aure montain water primped up arts very rich alluvéal sail. July 14 - Called on Prof. Huderson, State Botavist and Mr. Fellows at Burns ad did. vot get off milit 9 all. Brown worth To Campon City al west to Daywilly al the John Day Valley. Mephed the life gares and woole warry corrections in the rap. found hausilion four practically continues from 10 riveles north of Burns to John Day and in the bollow of the John Day valley all along. The west north side of the John Day Vally with an open southerly expanses sums to be pully pure Govern vol warm, of the heusel tops al side slopes on the south rede of the valley but the worst of often warshy botternlands are cold del have much Populus hielocayra, almos, Betula formulis, and big barrel arthors. potatoes of grain of arfalfa ort even potatoes of some corn are raised el well loaded with apples.

July 15. Left Daywills at 6 all sol took the worl west to funeville, a very pour wood of Mitchel of then a fine graded of awardley Luckery rood over the Ochoco Mits of Love to Principle Seon left the Severan valley of the John Day of came apover high hansebin gene rielges, nothy per, with seathers surpers recidely and sagibush but all beam with availedry annal grasses alweids. Multilinisia Carply arbureula. The fellow ping thinks of the bright rally of wormtains to the south a little about us and occasionally a gillow pine and To the worl. a few dry grains farms on the platerus ed sheep ranches in The cruck valleys when there is grans for Vay. Wort 7 rubs byour & Witchel we struck up over The unulaives Through a brevol bett of splindial Pinns penderation prest, I higher up on The Alspe found a deuse growth of townsach, douglas spines, balsam and along the ituans aspen of alches.

Crossed the low western end of the Ochoco Rauge at 5298 fut cel should Call The upper 1000 part of this Cavadran zone ou strep cald slopes. To the South of east the range runs unch higher with warmy pertebres of snow on eold slopes mai the tops and I have inspeed a Cainding gone strip along the creat or cold slopes. Down the range on the west we wind Through miles and wills of heautiful open fillew pure woods to the pot mar the big reservois where the fempers Ingur ed continue aeras the open valley & Preverille oil begoved & Bevel. Prinevilly al Reduced au un The opperedge of Severau zoin but the edge of Governmen and Transition is not very will aliqued. The varying baselout al rapid an drawage mexicog the two interminably. The Privevilly valley naw but a large water suffely for extrusive irrigation al the Sesolhutes valley at Bend is taking out wort of the water from the river of diveloping everword agreement areas.

fra Bend as drove 20 miles 5 E. To the bot capes, furth visiting the Skeleton Cave, om old lova humel which we followed for about a will wolnege but gave up finding the end for lack of time It is the typical lava cave with avolved wof 10 to 40 feet high ad 40 to 75 furt wide, sloping downward with quierelly flat roudy floor och while vot saudy or Hacked by pollow weeks with a cuelral ridge ad double side hades. The temperolass was too Cold pr bats, publiky I so about 45° fut is ince a water was Some 3014 unles faither south ord direthy south of the Pouling Mills. we camp to the arrold Lee caves, a series of 7 cave-ins along an old lava lund in about half a mile. Most of these are blocked up by the deop but two go down a few hundred

I. P. 27. The temperature of the Clevel declare when the ice is not observed and payer day to get the ice is not of the floor. The ice registered 32°. The autical authors of the con is much warmer. The dry caves where there is no water or the Station cave I estimated at 45°.

The Station Cave I estimated at 45°.

The Station Cave registered 40°.

huduel fut al contain some ice at the lower parts! In our There is water on The ree of in the other just sworth dry ion, faith clean of when chapted up waling govol chan water. We awalit for washing Vends al disher. These two coves are much too cold for bots but the appear Cavilies del feartrerous are warmer del The other dry coopins are warm of full of crosses where totsway him orl way find ways book to other warm chawbers voling good with a lot of bots cause out of a to The entrages of the caves in the evering but we seemed only one ed it on Eptimens futers. A swaller Mystis was equally com but the ofecurers start fell any bigrocks cel bushus of sould not by formal.

July 16. Found two were cave entraises as Coverus, waking I'm all at the awold Lec Esva also found the ploans of all the caves shown with wings and shells of numerous wolks and butles and crave flies, when the bats bail hem feeding overbeal et sught. The wolls seem to gather in the varue entruees of the caves as do warmy birds and the bots. Came buch 8 unles on our road and across 4 inely out to the Calf. Highway od struck south Toward Klamath Folls. at 22 miles south of Rivel are come to the Lava Core the largest, deepest and most extrusive of the Caves au bave seen. It suns down about 100 fut dup and back as a large tunnel over 2 wields in extent but way go paither. The turnel is rather high of nassers, generally 75 fut high al about as wide. A little water diffes in it at the air is dauge at cold. Well buch pupored the drylight The temperature was 40 %. The signes of bots or but greave privad and the wan in charge said no bots bod hem seem the also told of the Horse Caves, wear Bud, larger There are soiet to be many other covers in the lova hab.

From Bevel to H. Klawsth The Acquirery is all completel del the wast perfect rovel Vever vais, all orbet ad aworth with pas curves oil vo grades or hulls exorbs the one long east drop from the sumit at 5272 altitude down to H. Klaunth fut. a continuous forest of bodgefools fing from the most side of the Pauling Mills 6018 wills north of Lapener south to H. Klaunth with the exception of a few warm slopers grade about It. Klamath where Sugarpines, Cedars, balsams and aspens came in. Methorine prest of Lodgfols grows an a njellow gravel er primake plain where? suspect cold water runs over the rocks below ed kups The roots too cold for yellow pure for the sandy suitans fears of undance of Kungia triductata el Cearottus vilulius all the way. I have woffeed it as Canadran gene let with unch devot al histlation.

The Railroad at Buel is building southward bujord Lapury and will peolobly Come Through to some point fullus south. My wondistul gellow king forest is bring rapidly riduced to stumps and brushhaps but generally a good stand & seed hus is left to report the otherwise worthless land. The quat extent of bodgspools pins forest extending from the Pauling IIIIs. west to the Caseades of south to H. Klawath will probably be lumbered later as it contains warmy trues of sawmill size and guilling good box lumber.

July 17, Sunday, The bears did not Come around with after dark but Tipped overall the garboge caus of wode tracks all ovn camp. Drow ap to Crater Saly al walked down the trail to the later and drove along the run a quarter mile, as far as prionbanks would allow. Then drove back down to Klanath falls of camped at the automobile Camp 3 miles out on The road to Merrill of alturas, a rigular Camp city with cobius, tents. shower batter, word of water, stay, Garage, gasaling, barber abopt al ruenation curles. l'arl planned Camp with shools of rows of tall Løvubarely poplars.

July 18. Cant back to Klauntly Falls ed took my things & Bisbue Hotel of let anna & Laura of Verna start for home via alturas, Suxanville, Kino od Fallon. They will nobe it in two days over good earls. Havy borel a wonderful hips ed dere om innense awarmt of work in The 18 days out from Fallon. Could bow kept Them ed the car longer but couldnot penj even 70 milage vor for gas of oil breause my relatives Survished the car all did the work for me so the hips was tvo expensive for andy of us to Continue very long.

July 19 - Got my baggage readjusted Saw Elher appligate orl gottend what Information I could a plants al July 20 - Went to the County agreentland Agent, Mr. Huderson, west over his his Last annual seperts for information on crops soils, climate al bis stock and also got a lot of circulars and bulblins That will be a help in my liftymerpet. Also got nops oil uponation places pe The Klawoth Courseed Club al so forestry waps fre- The Forest Pratiation association. July

July 21 - Took bus over to Lolieview, 112 miles, having at 2 PM & arriving at 7. Came by way of Ollwa, Dairy, Borneyer. Whisley Cruk, Beatly, 12hy al Dans Czeel. Was able to walke wany corrections ve the life gove up and get a good idea of the country of its products. Here is a large entervoir ou Drews Cong. al at the edged the water al close to The wood were 2 flooles of Canada gens, about 100 m lack, al perfully oblivious to persons by. Sow a factisings in weadow was Lobeview, several Lewises Woodpiders day Theroad of a pais of tally quosils must the ready to hisky Cruh. Horavu sys on Drus Erik but my driver says they we a few Rever an withress branches of Williamsers River, with of Blyg natives say en Spegank Considerable snow on Congar Butte al The higher parts of the Wasser Mills.

Sput the formon getting zone map data frår timber maks im Lokeview Forestoffine. ad got unporlant data which was added to a copy of waf of Frewart fourth. Climbed up ruto Warver Mills. far worsph to get pluty of abies albients ad Papulus humbrieles in cold gulet. Listel Sovoran & Tramelins plants and bords. Returned to Klamath Falls in afternoon, 2:30 & 7 PM. od pund my gone work chiele very well from east to west. Was told at & Lat VIlly that Therian lots of belivers all along Spraque River, probably Stratumins de The had of Drews Crube and Sprague River almost met od in high water might afford interenumenation.